

Appl. No. 10/665,865

Reply to Office Action of October 24, 2005

Amendments to the Specification:

Page 21, please replace Table 4 with the following amended Table 4:

Table 4

Steel sheet	Coiling temperature (°C)	Primary annealing (°C x hr)	Cold reduction rate (%)	Secondary annealing (°C x hr)	Secondary annealing range by the formula (t)	Number of carbides larger than 1.5 μ m	Ratio of carbides smaller than 0.6 μ m (%)	Remark
1	580	640 x 40	70	680 x 40	640 - 680	56	85	Present invention
2	530	640 x 20	60	680 x 40	640 - 680	52	87	Present invention
3	595	640 x 40	60	680 x 20	640 - 680	64	81	Present invention
4	580	660 x 40	60	660 x 40	628 - 674	61	83	Present invention
5	580	680 x 20	60	640 x 40	620 - 658	63	82	Present invention
6	580	640 x 40	50	660 x 40	640 - 680	56	85	Present invention
7	580	640 x 40	70	640 x 40	640 - 680	54	86	Present invention
8	510	640 x 20	60	680 x 40	640 - 680	30	92	Comparative example
9	610	640 x 20	60	680 x 20	640 - 680	68	61	Comparative example
10	580	620 x 40	60	680 x 40	-	32	90	Comparative example
11	580	720 x 40	60	680 x 40	-	68	65	Comparative example
12	580	640 x 15	70	680 x 40	640 - 680	54	88	Comparative example
13	580	640 x 40	30	680 x 40	640 - 680	58	84	Comparative example
14	580	660 x 20	60	620 x 40	628 - 674	60	84	Comparative example
15	580	640 x 20	60	700 x 40	640 - 680	66	73	Comparative example
16	580	640 x 40	60	690 x 40	640 - 680	67	70	Comparative example
17	580	690 x 40	60	615 x 40	620 - 650	33	88	Comparative example
18	520	640 x 20	60	640 x 20	640 - 680	45	88	Comparative example
19	620	-	50	690 x 40	-	51	67	Comparative example

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Page 24, please replace Table 6 with the following amended Table 6:

Table 6

Steel sheet	Coiling temperature (°C)	Primary annealing (°C×hr)	Cold reduction rate (%)	Secondary annealing (°C×hr)	Secondary annealing range by the formula (1)	Number of carbides larger than 1.5 μm	Ratio of carbides smaller than 0.6 μm (%)	Remark
20	560	640 x 40	70	680 x 40	640 - 680	86	88	Present invention
21	530	640 x 20	80	680 x 40	640 - 680	82	88	Present invention
22	595	640 x 40	60	680 x 20	640 - 680	94	82	Present invention
23	560	680 x 40	60	660 x 40	628 - 674	90	83	Present invention
24	560	680 x 20	60	640 x 40	620 - 658	92	83	Present invention
25	560	640 x 40	50	660 x 40	640 - 680	87	85	Present invention
26	580	640 x 40	70	640 x 40	640 - 680	83	86	Present invention
27	510	640 x 20	60	680 x 40	640 - 680	44	93	Comparative example
28	610	640 x 20	60	680 x 20	640 - 680	101	62	Comparative example
29	560	620 x 40	60	680 x 40	-	47	91	Comparative example
30	560	720 x 40	60	680 x 40	-	100	84	Comparative example
31	560	640 x 15	70	680 x 40	640 - 680	83	87	Comparative example
32	560	640 x 40	30	680 x 40	640 - 680	88	85	Comparative example
33	560	680 x 20	80	620 x 40	630 - 674	89	84	Comparative example
34	560	640 x 20	60	700 x 40	640 - 680	98	72	Comparative example
35	560	640 x 40	60	690 x 40	640 - 680	99	70	Comparative example
36	560	690 x 40	60	615 x 40	620 - 650	49	89	Comparative example
37	600	690 x 40	50	650 x 40	620 - 650	96	77	Comparative example
37	610	690 x 40	50	650 x 40	610 - 650	96	77	Comparative example
38	620	-	50	690 x 40	-	100	65	Comparative example

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Page 29, please replace Table 9 with the following amended Table 9:

Table 9

Steel sheet	Reheating of sheet bar (°C×sec)	Coiling temperature (°C)	Primary annealing (°C×hr)	Cold reduction rate (%)	Secondary annealing (°C×hr)	Secondary annealing range by the formula (1)	Number of carbides larger than 1.5 μm	Ratio of carbides smaller than 0.6 μm (%)	Remark
52	-	580	640 x 40	70	640 x 40	632 - 680	55	85	Present invention
53	1050 x 15	510	640 x 20	60	680 x 40	632 - 680	30	92	Comparative example
54	1100 x 3	610	640 x 20	60	680 x 20	632 - 680	67	81	Comparative example
55	950 x 3	580	620 x 40	60	680 x 40	-	32	89	Comparative example
56	1050 x 15	580	720 x 40	60	680 x 40	-	68	65	Comparative example
57	1050 x 15	580	640 x 15	70	680 x 40	632 - 680	55	86	Comparative example
58	1050 x 15	580	640 x 40	30	680 x 40	632 - 680	58	84	Comparative example
59	1050 x 15	580	660 x 20	60	610 x 40	620 - 680	60	84	Comparative example
60	1050 x 15	580	640 x 20	60	700 x 40	632 - 680	68	74	Comparative example
61	1050 x 15	580	640 x 40	60	680 x 40	632 - 680	66	70	Comparative example
62	1050 x 15	580	680 x 40	60	615 x 40	620 - 658	33	88	Comparative example
63	1050 x 15	520	640 x 20	60	640 x 20	632 - 680	45	88	Comparative example
64	1050 x 15	510	640 x 20	60	640 x 20	640-690	45	88	Comparative example
64	1050 x 15	620	-	50	690 x 40	-	33	87	Comparative example